

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1, 3-18 and 37.
- After this Amendment: Claims 1, 3-18 and 37

Non-Elected, Canceled, or Withdrawn claims herein: None.

Amended claims: Claim 1, 4-9, 11, 13-15, 18 and 37.

New claims: None.

Claims:

1. (Currently Amended) A method of transmitting an image over a compressed video transport, as part of an image stream, comprising:

determining a portion macroblock of the image, [[a]] the portion macroblock being less than the entire image, the portion macroblock being determined by changes occurring in the portion macroblock during image generation,

determining a quality for the portion macroblock of the image based on a rate of change associated with the portion macroblock of the image;

transmitting the portion macroblock of the image at said quality using said transport;

determining that the portion macroblock of the image did not change in a time period; and

in response to determining that the portion macroblock of the image did not change in the time period, generating and transmitting a data block of image

enhancement data associated with the portion macroblock of the image, such that the data block improves the quality of the portion macroblock of the image, wherein the generating and transmitting are not performed in response to determining that the portion macroblock of the image changed during the time period.

2. (Cancelled)

3. (Previously presented) A method according to claim 1, wherein said generating comprises generating without decoding previously used DCT coefficients.

4. (Currently Amended) A method according to claim 1, wherein the portion macroblock of the image does not change in at least 30 frames.

5. (Currently Amended) A method according to claim 1, wherein the portion macroblock of the image does not change in at least 300 frames.

6. (Currently Amended) A method according to claim 1, wherein the portion macroblock of the image does not change in at least 5 seconds.

7. (Currently Amended) A method according to claim 1, wherein the portion macroblock of the image does not change in at least 25 seconds.

8. (Currently Amended) A method according to claim 1, further comprising not transmitting image enhancement data once a target image quality is reached for the portion macroblock of the image.

9. (Currently Amended) A method according to claim 1, further comprising repeating said generating and said transmitting a maximum of a predetermined number of times for the portion macroblock of the image.

10. (Previously presented) A method according to claim 1, wherein said transport comprises an MPEG-type transport.

11. (Currently Amended) A method according to claim 10, comprising decoding said image using a standard MPEG decoder, to have a temporally progressive quality of the portion macroblock of the image.

12. (Previously presented) A method according to claim 1, further comprising calculating a synchronisation frame for said transport by mapping a representation of said image as transmitted to a representation of said image as it should be in a synchronisation frame.

13. (Currently Amended) A method according to claim 1, further comprising associating an indication of a suitable target quality with the portion macroblock of the image.

14. (currently Amended) A method according to claim 1, further comprising associating an indication of a suitable initial quality with the portion macroblock of the image.

15. (Currently Amended) A method according to claim 1, further comprising associating an indication of an expected rate of change with the portion macroblock of the image.

16. (Original) A method according to claim 15, comprising generating said indication by an image generator that generates said image.

17. (Original) A method according to claim 15, comprising generating said indication by an image encoder that encodes said image.

18. (Currently Amended) A method according to claim 15, comprising generating said indication by analysing a past profile of changes of said portion macroblock of the image.

19-36. (Cancelled)

37. (Currently Amended) A method of transmitting an image over a compressed video transport, as part of an image stream, comprising:

identifying first and second portions macroblocks of the image, by utilizing changes occurring in the first and second portion macroblock during image generation, wherein:

the first portion macroblock of the image is distinct from the second portion macroblock of the image;

the first portion macroblock of the image has a first original quality level; and

the second portion macroblock of the image has a second original quality level;

identifying first and second frames of the image stream wherein:

a first data block in the first frame and a first data block in the second frame each correspond to the first portion macroblock of the image;

a second data block in the first frame and a second data block in the second frame each correspond to the second portion macroblock of the image;

determining a first portion macroblock degree of change by comparing the first data block in the second frame to the first data block in the first frame, wherein the first portion macroblock degree of change provides a quantitative representation of how different the first portion macroblock of the image resulting from the second frame is from the first portion macroblock of the image resulting from the first frame;

determining a second portion macroblock degree of change by comparing the second data block in the second frame to the second data block in the first frame, wherein the second portion macroblock degree of change provides a

quantitative representation of how different the second portion macroblock of the image resulting from the second frame is from the second portion macroblock of the image resulting from the first frame;

encoding a third frame of the image stream based on:

an analysis of the first portion macroblock degree of change that indicates that the first portion macroblock of the image did not change between the first and second frames; and

an analysis of the second portion macroblock degree of change that indicates that the second portion macroblock of the image did change between the first and second frames;

wherein the third frame comprises:

a first data block that corresponds to the first portion macroblock of the image; and

a second data block that corresponds to the second portion macroblock of the image; and

wherein the third frame results in:

the first portion macroblock of the image having a first new quality level; and

the second portion macroblock of the image having a second new quality level;

such that an improvement in quality between the first original quality level and the first new quality level is greater than an improvement in quality between the second original quality level and the second new quality level.